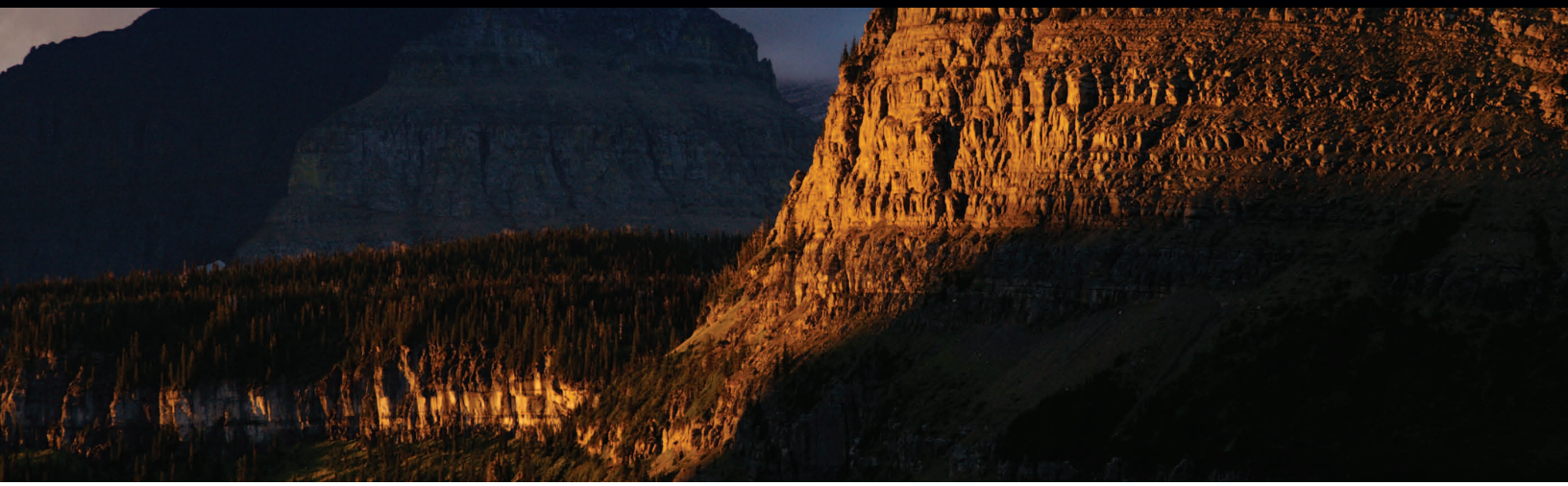
SONY
make.believe



HDR-PJ50V

High Definition Projector Handycam® Camcorder

Projector HD

Share your memories virtually anywhere using the HDR-PJ50V Handycam camcorder's built-in, high-contrast projector. This mobile theater can project up to a 60" (diag.) image on almost any surface, and with powerful stereo speakers, you'll hear all the action. Record your 1920x1080/60i/60p/24p Full HD video for film-like videos onto a 220 GB[1] hard disk drive.

1920x1080 Full HD 60p/24p Recording w/7MP still image

The Sony® HDR-PJ50V offers 1920x1080 resolution letting you record your memories in exceptional Full High Definition quality. Capable of 60p recording with playback via HDMI™ (cable sold separately) to an HDTV providing stunning clarity and incredibly detailed and smoother playback of your memories. If you're looking for a film-like quality loos to your video, 24p recording is available for you.

220 GB[1] Hard Disk Drive for up to 91 hours of recording

The built-in 220 GB[1] Hard Disk Drive can record and store up to 91 hours of high definition video footage (LP mode).*

Built-in High-Contrast Projector

The high-contrast projector built-in to the LCD panel gives you the freedom to share your favorite memories virtually anywhere. Powerful enough to project a 60" diagonal screen, this small projector packs a powerful punch. Combined with advanced stereo speakers with Clear Phase technology, your memories will come alive for you and those you're sharing with.

Wide Angle G lens to capture everything you want

Experience the pinnacle of Sony® lens technology with the professional-quality G Lens. Engineered for superior optical performance, Sony G lenses deliver brilliant, accurate color reproduction and sharp, amazingly detailed images. In addition, the 27.4mm focal length in Photo Mode and 29.8mm in Video Mode offers a broader perspective for enhanced wide angle shooting.

Back-illuminated "Exmor R" CMOS sensor for superb low-light video

Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated "Exmor R" CMOS sensor. Designed for compact cameras and camcorders, the "Exmor R" sensor relocates the photo diodes above the support circuitry, maximizing the light gathering area per pixel so you can shoot with better results in lower lighting conditions

Optical SteadyShot™ image stabilization w/Active Mode

Optical SteadyShot™ image stabilization with Active Mode compensates for greater degrees of camera shake to deliver stunningly smooth video from wide angle to full telephoto shooting. In addition, innovative 3-Way Shake-Canceling adds electronic roll stability for even smoother video capture.

3.0" touch-screen Clear Photo LCD Plus™ display (230K)

The 3.0" Clear Photo LCD Plus™ screen displays sharp, bright, vivid images, letting you compose a shot more easily -- even outdoors, while enabling you to change settings to best represent the scene.

Additional Features:

- 17x Extended Zoom to get even closer to the action
- Tracking Focus follows selected subjects
- 5.1ch Surround mic for vivid and dynamic surround sound
- Wind noise reduction for clear voice recording
- Expanded recording/monitoring with mic/headphone jack
- Active Interface Shoe to attach intelligent accessories
- Event Browse groups video/stills by events automatically
- Highlight Playback creates movies with transitions for you
- S-Master™ digital amplifier for true and dynamic output
- Built-in GPS
- Direct Copy to external hard drive without PC[13]
- Built-in USB Cable & pre-installed PMB portable

Specifications

IMAGER	
Imaging Device	1/4" back-illuminated "Exmor R" CMOS Sensor
Processor	BIONZ® image processor
Imager Pixel Gross Size	4200K
VIDEO	
Video Actual 16:9	Approx. 2650K pixels
Video Actual 4:3	Approx. 1990K pixels
Video Resolution (Movie Quality)	HD: 1920x1080/60p, 24p, 60i (FX,FH), 1440x1080/60i (HQ,LP), STD: 720x480/60i
Video Signal System	HD: HDTV 1080/60p, 24p, 60i; STD:NTSC color, EIA standards
Video Format(s) Supported	HD: MPEG4-AVC/H.264 AVCHD™ format compatible (1080/60p: original format); STD:MPEG2-PS
STILL PICTURE	
Still Actual 16:9	5.3 megapixels (3072x1728) (Photo Mode)
Still Actual 4:3	7.1 megapixels (3072x2304) (Photo Mode)
Still Picture Max Resolution	7.1MP
Dual Record Resolution	5.3MP 16:9 (3072x1728)
AUDIO	
Audio Recording Format	Dolby® Digital 5.1ch, Dolby® Digital 5.1 Creator, 2ch Stereo
Microphone	Built-in Zoom Microphone
MEDIA TYPE	
Recording Media	Memory Stick PRO Duo™ media (sold separately); SD/SDHC media (sold separately)
Internal Memory	HDD 220 GB[1] (HDD Smart Protection)
RECORDING CAPACITY	
Record time with Internal Memory*	HD PS: Approx. 18h 0m HD FX: Approx. 21h 20m HD FH: Approx. 29h 0m HD HQ: Approx. 51h 10m HD LP: Approx. 91h 30m STD HQ: Approx. 53h 0m
OPTICS AND LENS	
Lens Type	G Lens
35mm Equivalent 16:9	29.8mm - 357.6mm
35mm Equivalent 4:3	36.5mm - 438mm
Aperture	F1.8 - F3.4
Exposure Control	Yes (Touch Panel)
Filter Diameter (mm)	30mm
Focal Distance (mm)	2.9mm - 34.8mm
Focus System	Contrast AF
Shutter Speed	Auto: 1/8-1/1000; STD: 1/60 - 1/1000;
Minimum Illumination	11 lux (1/60 Shutter Speed)
Optical Zoom	12x
Digital Zoom	160x
Extended Zoom	17x
DISPLAY	
Display	3.0" Clear Photo LCD Plus™ display (230K) Wide(16:9)
View Finder	-
HARDWARE	
Flash	Built-in Flash
Memory Card Slot	Yes (Memory Stick PRO Duo media, SD/SDHC media)
Manual / Auto Lens Cover	Auto
S/S & Zoom Button on LCD	Yes (Touch Panel)
INPUTS & OUTPUTS	
Audio/Video Remote Terminal	Video/S Video/Audio/Component Out/Remote
Digital Audio/Video Output(s)	HDMI™
USB Port(s)	Yes (mini B/Hi-Speed)
Component Video (Y/Pb/Pr) Output(s)	A/V terminal
HDMI™ Connection Output(s)	Yes (mini)
Headphone Jack	Stereo Minijack
Microphone Input	Stereo Minijack
Active Interface Shoe	Yes (Active Interface Shoe)

PROJECTION	
Light Output	Up to 10 lumen
Resolution Output	640x360
Screen Coverage	10" - 60" (diagonal)
Throw Distance	Approx. 18in. - 9ft (0.5m - 3m)
Endurance (Battery Life)	Approx. 1.5 hours (Supplied Battery)
CONVENIENCE FEATURES	
Face Detection	Yes
Smile Shutter™ Mode	Dual Capture/Always On/Off
Quick On	Yes, Power On with LCD
BRAVIA® Sync Control for HDMI (CEC)	Yes[5]
Dynamic Range Optimizer	Yes
Image Stabilization	Optical SteadyShot™ image stabilization w/Active mode (Wide to Tele)
x.v.Color™	Yes
White Balance	Auto/Onepush/Outdoor/Indoor
Fader Effects	White/Black
Scene Selection Mode(s)	Auto/Twilight/Twilight Portrait(Photo Mode only)/Sunrise & Sunset/Fireworks/Landscape/Portrait/Spotlight/Beach/Snow
Event Browse	Yes
Photo Capture from Movie	Yes
Still Image Format(s)	JPEG
Slide Show Mode	Yes
One Touch Disc Burn	Yes (Menu)
PhotoTV HD	Yes[8]
Multiple Language Display	Yes
Smooth Slow Record	Yes
GPS	Yes
Direct Copy	Yes[13]
POWER	
Power Consumption	3.7W (HD), 3.5W (STD)
Supplied Battery Type	InfoLITHIUM® (NP-FV50)
Power Requirements	7.2V (battery pack); 8.4V (AC Adaptor)
DIMENSIONS	
Dimensions (Approx.)	2 5/8" x 2 5/8" x 4 5/8" (67mm x 67mm x 118mm)
Weight (Approx.)	14.3oz (405g)
SUPPLIED ACCESSORIES	
AC Adaptor	Yes
Rechargeable Battery Pack	InfoLITHIUM® (NP-FV50)
Remote Commander® control unit	RMT-835 with Battery
Power Cord	Yes
Component Video Cable	Yes
Composite Video Cable	Yes
USB Cable	Yes
Application Software (CD-ROM)	PMB Ver.5.5[9]
SUGGESTED ACCESSORIES	
Rechargeable InfoLITHIUM Batteries	NP-FV50/FV70/FV100
Starter Kit	ACC-FV70, ACC-FV50A, ACC-HDV7
AC Adaptor/Charger for V series batteries	AC-VQV10, AC-L200, BC-TRV, AC-UP100
Lens	VCL-HGA07B, VCL-HGE08B, VLC-HC1730A
Water Housing	SPK-HCG
Tripod	VCT-80AV, VCT-60AV, VCT-50AV, VCT-R640, VCT-R100
Video Light	HVL-10NH, HVL-HFL1, HVL-HL1
DVDirect® Recorder	VRD-MA1, VRD-MC6, VRD-P1

FOOTNOTES

*Capacity will vary based on type and complexity of image recorded.
1. 220 GB equals 200 billion bytes. A portion of the total storage is used for system management and/or application files.
5. Requires HDMI connection to BRAVIA Sync or Theatre Sync enabled HDTV.
8. Requires compatible BRAVIA® HDTV and cable (sold separately).
9. Requires Microsoft® Windows® XP SP3/ Windows Vista® SP2/Windows 7. Not supported by Mac® OS.
13. Requires VMC-UAM1 cable (sold separately). AC power for camcorder, and hard drive formatted in FAT-32. USB-hub not supported. External HHD/USB media should be less than 2TB (Terabytes).

© 2011 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony is not responsible for typographic and photographic errors. Features and specifications are subject to change without notice. All TV reception, monitor pictures and print pictures are simulated. Sony, α, Bloggie, Handycam, Clear Photo, Optical Steady Shot, S-Master, TruBlack, and Xtra Fine LCD are trademarks of Sony. Microsoft, Windows, and Windows Vista are trademarks of Microsoft Corporation. HDMI is a trademark of HDMI Licensing LLC. Dolby is a registered trademark of Dolby Laboratories. All other trademarks are trademarks of their respective owners.